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BROADBAND ANTENNA, FILTER AND DETECTOR SYSTEMS

Purpose:

To develop a system of antennas, filters and detectors for the

50 MC to 40,000 MC frequency range.

Personnel:

Electrical Engineers:

25X1 25X1

Mathematician:

Status:

Investigation of the filter network has continued. Owing to the skirt selectivity requirements, the insertion power ratio function is a high order polynomial. The math analysis group is using the IBM 650 computer to determine the characteristics of the network function.

Two Sage Laboratories, Inc. waveguide crystal holders were received. Government furnished signal generators (12.4 KMC to 39.7 KMC) were delivered.

Future Plans:

The filter design will continue and as early as possible a test model using strip transmission line techniques will be constructed. Pending delivery of the customer furnished video amplifier sensitivity measurements will be made on the two crystal holders with Sylvania type 1N358A tripolar crystals mounted in them.

Work will continue on the 500 MC to 10,000 MC antenna.

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